

What is claimed is:

1. A backlight system comprising:

a light guide plate including a plurality of incident surfaces disposed at corners thereof; a light exit surface; and a bottom surface opposite to the light exit surface; and

a plurality of point light sources for emitting light beams disposed adjacent and opposite to the incident surfaces;

wherein, the bottom surface comprises a scattering pattern having a plurality of dots thereon, and a covering rate of the scattering pattern varies such that a light distribution density of light emitted from the light guide plate is uniform.

2. The backlight system as claimed in claim 1, wherein the point light sources are light emitting diodes.

3. The backlight system as claimed in claim 1, wherein the light guide plate includes four incident surfaces disposed at opposite corners thereof.

4. The backlight system as claimed in claim 1, wherein a shape of the dots is hemispherical, cylindrical, rectangular, or cuboidal.

5. The backlight system as claimed in claim 1, wherein the bottom surface further comprises a reflective film.

6. The backlight system as claimed in claim 5, wherein the reflective film has a reflective ratio greater than 98% for wavelengths in the range of the visible spectrum.

7. A liquid crystal display comprising:

a liquid crystal panel; and

a backlight including:

a light guide plate having a plurality of incident surfaces disposed at corners of the light guide plate;

a light exit surface;

a bottom surface opposite to the light exit surface; and

a plurality of point light sources disposed adjacent and opposite to the incident surfaces for emitting light beams;

wherein, the bottom surface of the light guide plate comprises a scattering pattern having a plurality of dots thereon, and a covering rate of the scattering pattern varies such that a light distribution density of light emitted from the light guide plate is uniform.

8. The liquid crystal display as claimed in claim 9, wherein the light guide plate includes four incident surfaces disposed at opposite corners thereof.

9. The liquid crystal display as claimed in claim 9, wherein the bottom surface further comprises a reflective film.

10. A backlight system comprising:

a light guide plate defining a plurality of side faces and opposite bottom and exit faces, said side faces commonly defining a periphery of said light guide plate; and

a plurality of point light sources essentially uniformly dispersed along said periphery and commonly directing toward a center region of said light guide

plate.

11. The system as claimed in claim 10, wherein said point light sources are located at corners of said light guide plate.
12. The system as claimed in claim 11, wherein an incident face is formed at each of said corners.
13. The system as claimed in claim 10, wherein each of said point light sources defines an effective angle range between two lines, and one of said two lines is aligned with one corresponding side face.
14. The system as claimed in claim 13, wherein each of said point light sources has two neighboring point light sources, and at least one of said two neighboring point light sources defines another effective angle range between another two lines wherein one of said another two lines is aligned with said same one corresponding side face so that an area beside said one corresponding side face belongs to a higher light intensity distributing area.